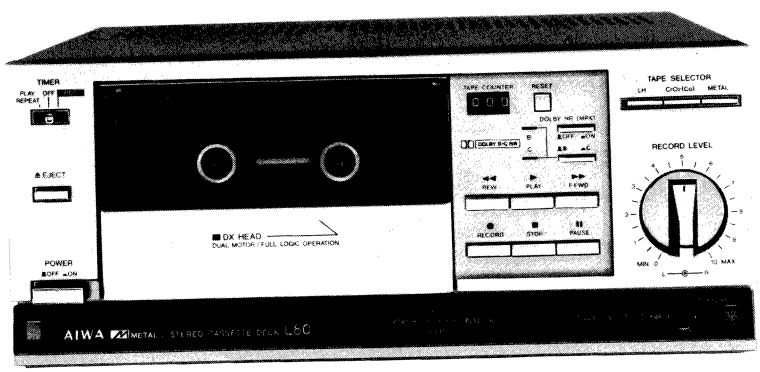
STEREO CASSETTE DECK

MODEL NO. SD-L80H,G

AIWA®

[SERVICE MANUAL]

Code No. 19-800-000-12



DATE OF ISSUE 10/1981

SPECIFICATIONS

Semiconductors:	10 IC's, 96 transistors, 65 diodes 29 LED's
Power supply:	H model AC 120/220/240V Switchable 50/60 Hz G model AC 240V, 50/60 Hz
Power consumption:	26W
Dimensions:	250(W) x 106.5(H) x 245(D) mm
Weight:	4.0 kg
Track type:	4 tracks 2 channel
Tape speed:	4.8 cm/s ± 1.5%
Wow and flutter:	Less than 0.09% Less than 0.032% (WRMS)
Automatic stop system:	Full auto stop
Automatic shut-off action time:	3 ± 1 s.
Pinch roller pressure:	350 ± 30 g
Take-up torque:	45^{+15}_{-10} g-cm
FF & rewind torque:	155 ± 50 g-cm
FF & rewind time:	90 s. (C-60)
Play back output: (TTA-161)	0.76 ± 0.05V (LINE)
Play back noise:	Less than 1.5 mV (METAL, DOLBY-B NR ON) Less than 2.7 mV (LH DOLBY NR OFF)
Rec./PB output: (TTA-119G)	0 VU ± 1.0 dB (LINE)
Rec./PB distortion:	Less than 1.5% (METAL) Less than 1.5% (CrO_2) Less than 1.4% (LH)
Rec./PB SN ratio: (Unweighted)	More than 45/49 dB (METAL, CrO_2, DOLBY-C NR OFF/ON) More than 43/48 dB (LH, DOLBY-C NR OFF/ON)
(WTD-A)	More than 48/46 dB (METAL, CrO_2, DOLBY-C NR OFF/ON) More than 46/41 dB (LH, DOLBY-C NR OFF/ON)
Channel separation: (1 kHz, 0 VU)	More than 35 dB
Cross talk: (1 kHz, 0 VU)	More than 60 dB
Erasing ratio: (125 Hz, 0 VU, +10 dB)	More than 60 dB
Bias frequency:	85 kHz
Frequency response:	METAL 20 ~ 18,000 Hz CrO_2 20 ~ 17,000 Hz LH 20 ~ 16,000 Hz
Motor:	DC servo motor (capstan) DC motor (reel)
Inputs:	MIC max. sensitivity 0.3 mV (200 Ω ~ 10 kΩ suitable) LINE IN Max. sensitivity 50 mV (Optimum load impedance more than 50 kΩ)
Outputs:	LINE OUT Standard level 0.55 V (0 VU) (Optimum load impedance more than 50 kΩ) PHONES 8 Ω

- Specifications and external appearance are subject to change without due to product improvement.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- Dolby and the ▯▯ symbol are trademarks of Dolby Laboratories Licensing Corporation.

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DISASSEMBLY INSTRUCTION

1. Removing the Steel cabinet

1) Remov 5 screws (See figure 1)

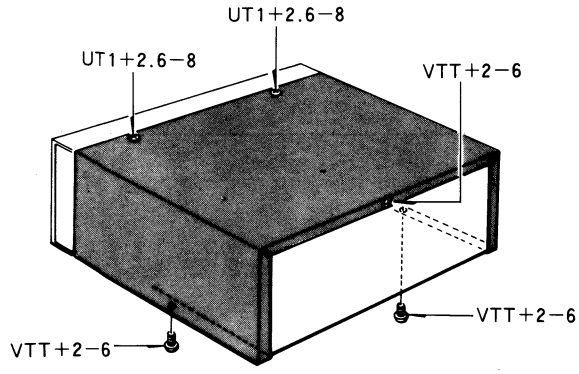


Fig. 1

2. Removing the Front cabinet

1) Pull to remove decorative plate for cassette lid in the direction of arrow. (See figure 2)

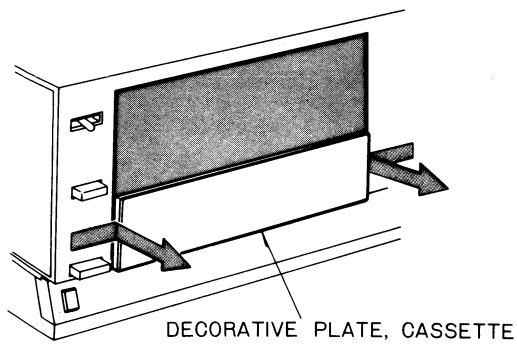


Fig. 2

2) Remove 2 screws and cassette lid (See figure 3)

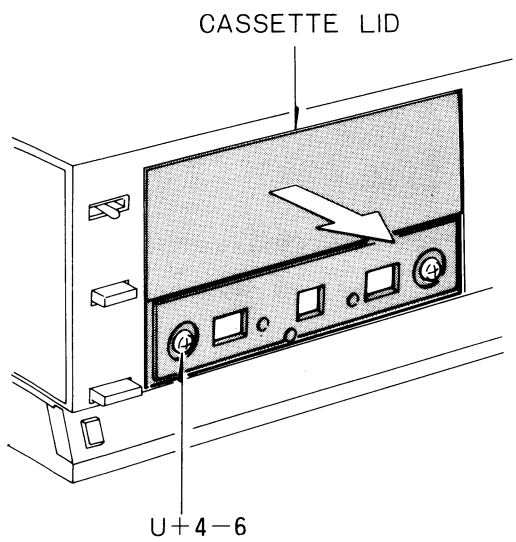


Fig. 3

3) Remove 3 wire binders and take connector off. (See figure 4)

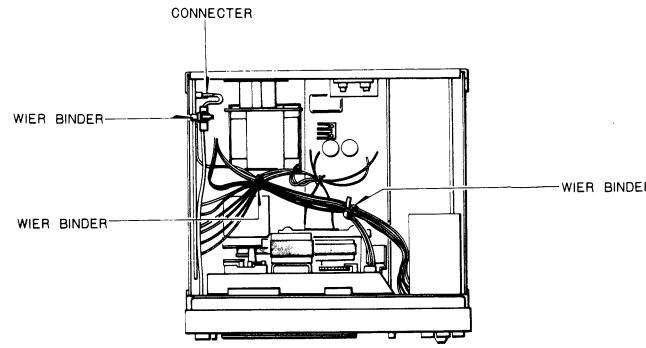


Fig. 4

4) Remove 2 screws. (See figure 5)

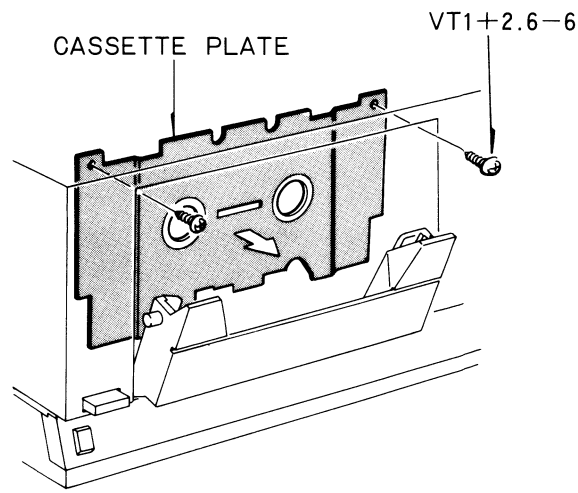


Fig. 5

5) Remove 6 screws. Remove front cabinet in the direction of arrow after cassette box being ejected. (See figure 6)

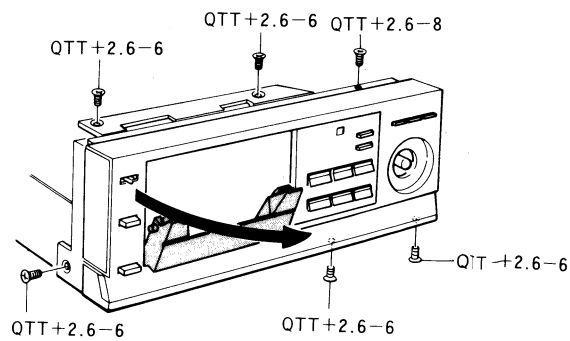


Fig. 6

It remove cabinet away, Take off the rest of 3 connectors. (See figure 7)

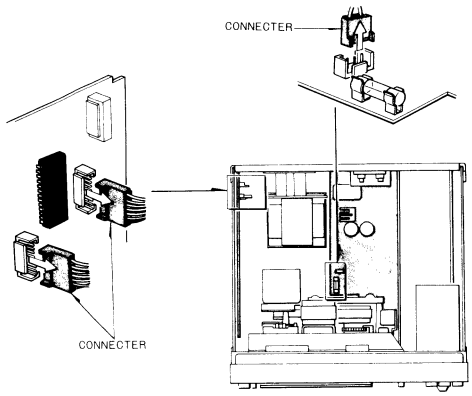


Fig. 7

Note: Eject button is easy of off so be careful when removing the front panel.

3. Removing the Mechanism

1) Remove 2 screws. (See figure 8)

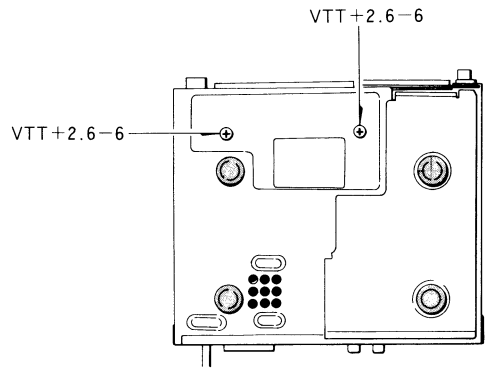
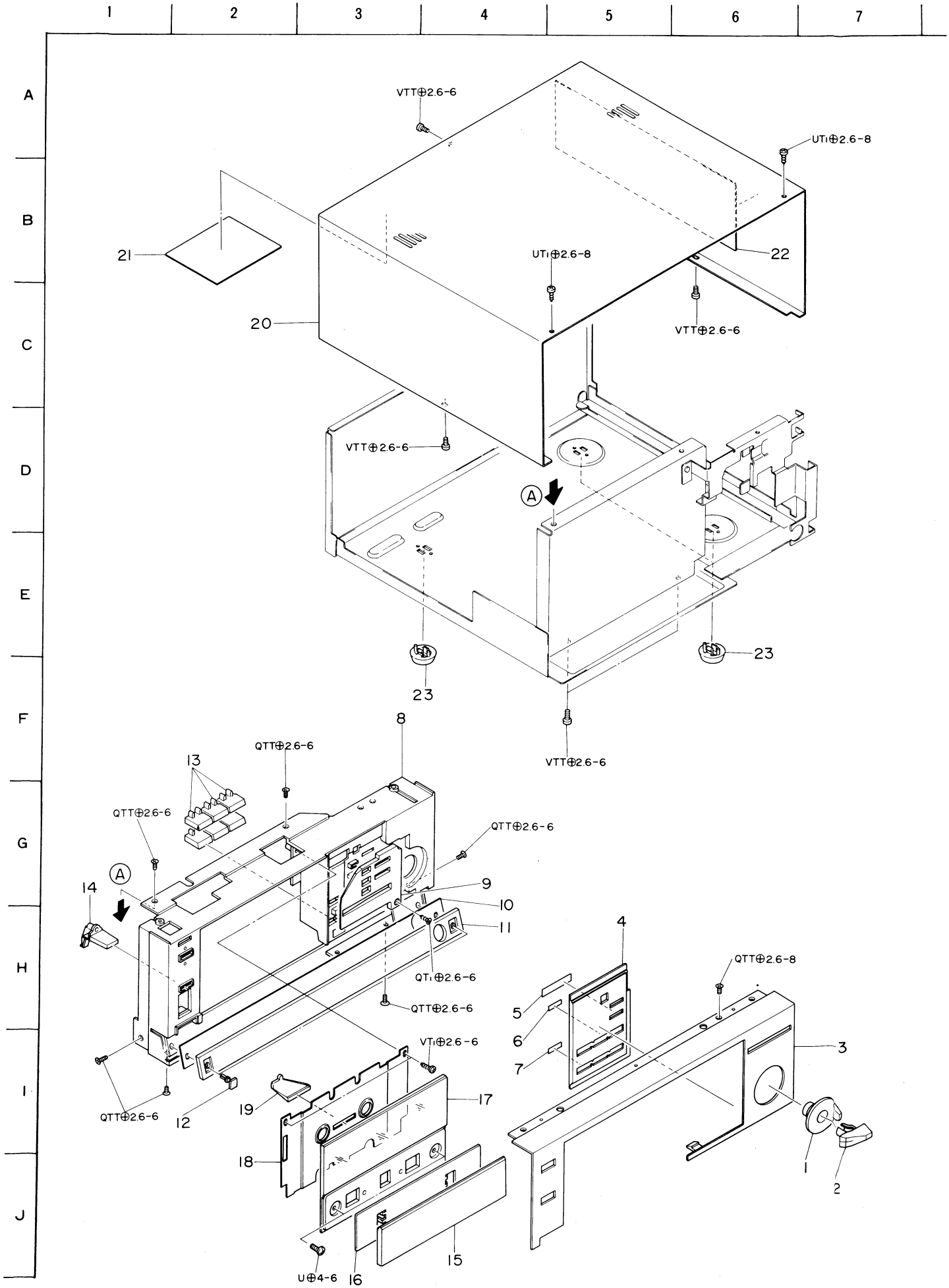


Fig. 8

EXPLODED VIEW–1



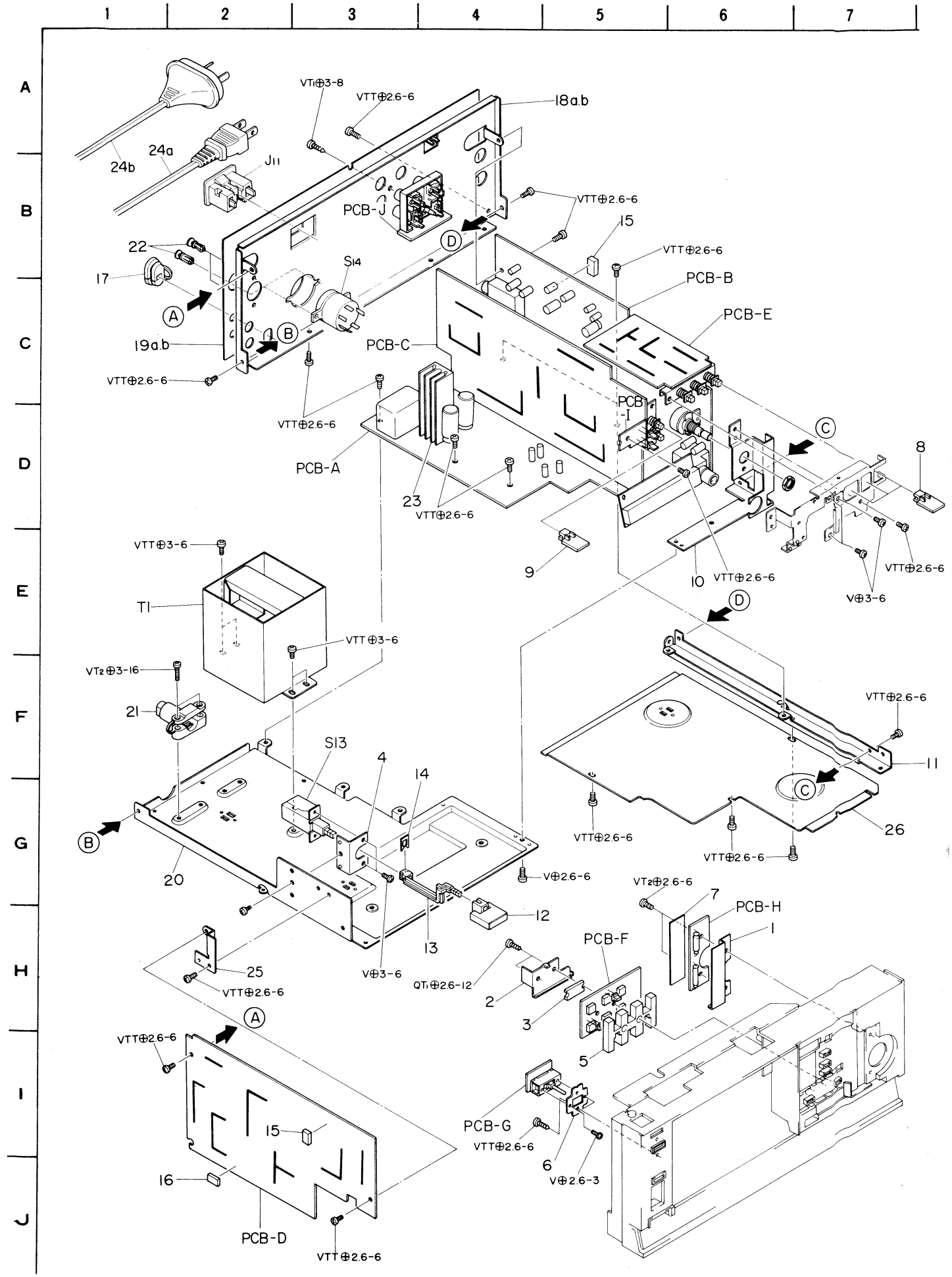
PARTS LIST

MECHANICAL PARTS

■ * mark in this part list shows exclusive part.

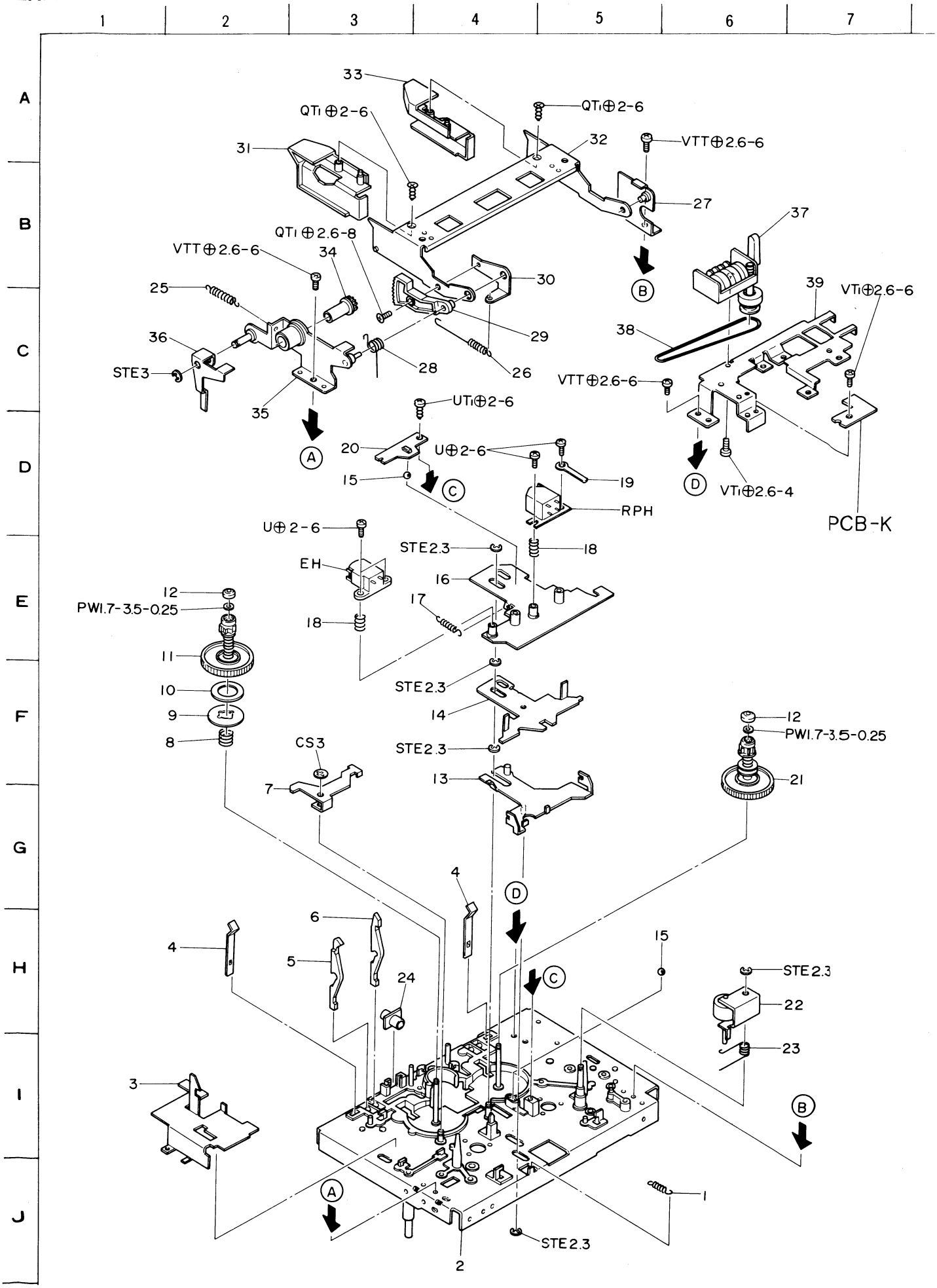
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1-1	82-180-018-01		Knob, REC (DOWN)	*	1	
1-2	82-780-005-01		Knob, Volume	SA-C80	1	
1-3	82-180-001-01		Panel, Front	*	1	
1-4	82-180-004-01		Panel, Control plate	*	1	
1-5	82-180-260-01		Filter, BC	*	1	
1-6	82-180-258-01		Filter, PLAY	*	1	
1-7	82-180-259-01		Filter, REC	*	1	
1-8	82-180-002-01		Cabinet, Front	*	1	
1-9	82-180-005-01		Panel, Light guide	*	1	
1-10	82-180-003-01		Cover, LED	*	1	
1-11	82-180-011-01		Cover, Name	*	1	
1-12	82-769-010-01		Nylon rivet ass'y	ST-R35	2	
1-13	82-180-006-01		Push-button, PLAY	*	6	
1-14	82-160-014-01		Knob, EJECT	AD-M450	1	
1-15	82-180-008-01		Decorative plate, cassette lid	*	1	
1-16	82-180-215-01		Lock plate	*	1	
1-17	82-180-007-01		Cassette lid	*	1	
1-18	82-180-009-01		Cassette plate	*	1	
1-19	82-154-015-01		Guide, Light	AD-M700	1	
1-20	82-180-019-01		Cabinet, Steel	*	1	
1-21	82-180-251-01		Insulation sheet (G model only)	*	1	
1-22	82-748-633-01		Shield plate, Side	SA-C50	1	
1-23	82-745-019-01		Foot		4	

EXPLODED VIEW–2



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
2-1	82-180-249-01		Lamp cover ass'y	*	1	
2-2	82-180-246-01		Holder, Circuit board	*	1	
2-3	82-180-247-01		Insulation plate	*	1	
2-4	82-180-205-01		Holder, POWER switch	*	1	
2-5	82-180-248-01		Tact, M cushion	*	1	
2-6	82-180-204-01		Holder, Slide switch	*	1	
2-7	82-180-256-01		Shield plate	*	1	
2-8	82-781-004-01		Push-button	SA-P80	3	
2-9	82-180-021-01		Push-button (Black)	*	2	
2-10	82-180-203-01		Chassis, Front	*	1	
2-11	82-180-237-01		Chassis, Side	*	1	
2-12	82-780-008-01		Push-button C	SA-C80	1	
2-13	82-493-225-01		Rod C		1	
2-14	82-385-383-01		Rod, Stopper	AD-6300	1	
2-15	82-755-221-01		G cushion	AX-S50	2	
2-16	82-749-208-01		G cushion	SA-P50	1	
2-17	87-085-165-01		Cord bushing (H model only)		1	
2-18a	82-180-217-01		Chassis, Rear (H model only)	*	1	
2-18b	82-180-219-01		Chassis, Rear (G model only)	*	1	
2-19a	82-180-013-01		Jack plate (H model only)	*	1	
2-19b	82-180-017-01		Jack plate (G model only)	*	1	
2-20	82-180-201-01		Chassis A, Amp.	*	1	
2-21	87-085-166-01		Holder, AC power cord (G model only)		1	
2-22	87-084-063-01		Nylon, rivet ϕ3-5.5		H:4 G:2	
2-23	82-304-725-01		Heat sink		1	
2-24a	87-034-956-01		AC power cord (H model only)		1	
2-24b	87-034-892-01		AC power cord (G model only)		1	
2-25	82-180-238-01		Holder P.C.B.	*	1	
2-26	82-180-216-01		Cabinet, Bottom	*	1	

EXPLODED VIEW–3

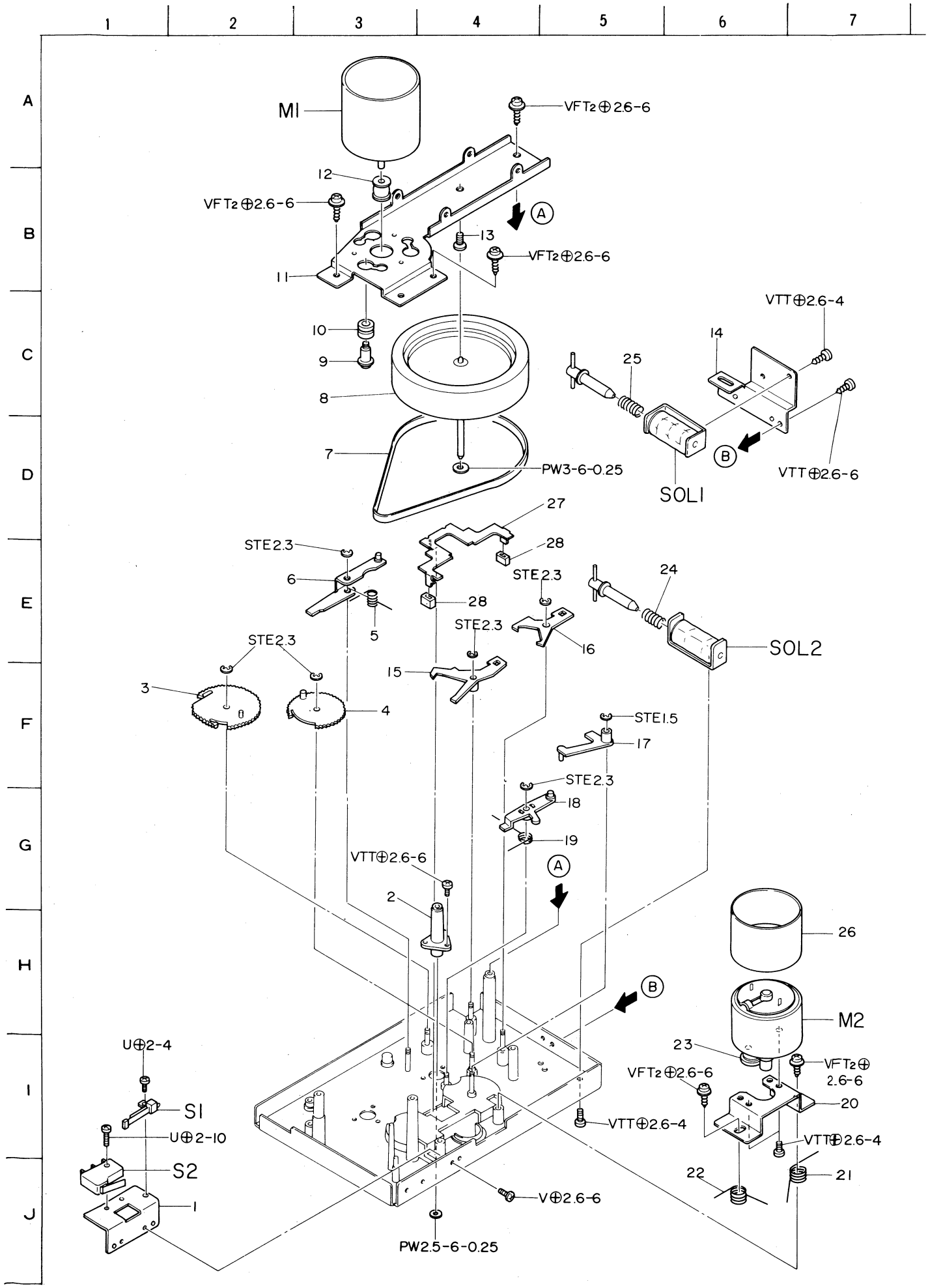


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-170-227-01		E-spring, Pressure actuating (D)		1
3-2	82-180-234-01		Outsert shaft ass'y S	*	1
3-3	82-180-206-01		Slide plate	*	1
3-4	82-161-293-01		P-spring, Presusre cassette		2
3-5	82-565-327-01		REC blocking lever		1
3-6	82-161-358-01		Lever, Cassette		1
3-7	82-161-347-01		EJECT blocking lever		1
3-8	82-165-306-01		C-spring, B.T.S.		1
3-9	82-161-290-01		Slide plate, Actuating ass'y 2		1
3-10	82-161-351-01		Felt, 1-16-10		1
3-11	82-161-259-01		Supply reel platform ass'y		1
3-12	82-303-398-01		Cap, Take-up reel platform		2
3-13	82-180-232-01		Slide plate, Actuating ass'y S	*	1
3-14	82-180-231-01		Slide plate, Pause S	*	1
3-15	87-073-005-01		Steel ball 2ϕ		2
3-16	82-180-225-01		Actuating chassis ass'y	*	1
3-17	82-161-308-01		E-spring, Actuating		1
3-18	82-307-212-01		C-spring, EH		1
3-19	82-357-487-01		Holder D, Reed wire		1
3-20	82-161-292-01		P-spring, Actuating		1
3-21	82-170-251-01		Take-up reel platform ass'y		1
3-22	82-161-249-01		Pinch roller ass'y		1
3-23	82-161-301-01		T-spring, Pinch F		1
3-24	82-180-659-01		Cassette lamp	*	1
3-25	82-170-239-01		E-spring, Slide plate		1
3-26	82-180-242-01		E-spring, Lid	*	1
3-27	82-161-312-01		Holder C box R ass'y		1
3-28	82-170-246-01		T-spring, Lid		1
3-29	82-179-220-01		Gear, Oil dump	AD-3800	1
3-30	82-180-212-01		Stopper spring	*	1
3-31	82-155-011-01		Holder L, Cassette	AD-M800	1
3-32	82-180-210-01		Cassette box ass'y	*	1
3-33	82-155-012-01		Holder R, Cassette	AD-M800	1
3-34	82-534-264-01		Gear, Oil dump		1
3-35	82-180-207-01		Cassette box holder ass'y	*	1
3-36	82-180-240-01		Lever, EJECT	*	1
3-37	87-040-151-01		Counter		1
3-38	82-463-219-01		Belt, Counter	TPR-900	1
3-39	82-180-214-01		Holder, Counter	*	1

CAUTION

This mechanism is based on AD-R500(DM-6) please refer to the AD-R500 in case of repair service.

EXPLODED VIEW—4



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
4-1	82-161-234-01		Switch holder, REC		1
4-2	82-161-253-01		Shaft bearing ass'y		1
4-3	82-161-276-01		Gear, PLAY		1
4-4	82-161-277-01		Gear, PAUSE		1
4-5	82-161-300-01		T-spring, PLAY lever		1
4-6	82-161-218-01		PLAY lever ass'y		1
4-7	82-180-223-01		Rubber belt, Main	*	1
4-8	82-180-220-01		Flywheel ass'y	*	1
4-9	87-081-483-01		Motor screw, M2.6		3
4-10	87-087-029-01		Rubber cushion		3
4-11	82-180-222-01		Flywheel plate	*	1
4-12	82-180-229-01		Pulley main	*	1
4-13	82-331-107-01		Thrust screw		2
4-14	82-161-233-01		Holder, Solenoid		1
4-15	82-161-269-01		Trigger lever, PLAY		1
4-16	82-161-270-01		Trigger lever, PAUSE		1
4-17	82-161-272-01		Brake eject lever		1
4-18	82-161-266-01		FRP lever ass'y		1
4-19	82-161-298-01		T-spring, PAUSE lever		1
4-20	82-170-242-01		Holder, MOTOR		1
4-21	82-161-295-01		T-spring, Brake L		1
4-22	82-161-296-01		T-spring, Brake R		1
4-23	82-170-248-01		Idler ass'y		1
4-24	82-161-365-01		C-spring, Solenoid A2		1
4-25	82-161-349-01		C-spring, Solenoid A		1
4-26	82-551-617-01		Shield plate		1
4-27	82-161-236-01		Slide plate, Brake		1
4-28	82-397-307-01		G-cushion, EJECT lever		2

ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1	82-180-853-01		Printed indiv., Packing	*	1	
2	82-157-852-11		Cushion L, Printed indiv.	SD-L50	1	
3	82-157-853-11		Cushion R, Printed indiv.	SD-L50	1	
4	87-056-605-01		Poly-vinyl sack (for case)		1	
5a	82-180-903-01		Instructions booklet (H model only)	*	1	
5b	82-180-904-01		Instructions booklet (G model only)	*	1	
6	87-051-131-11		Poly-vinyl sack (for AC power cord)		1	
7	87-051-171-11		Poly-vinyl sack (for instruction)		1	
8	87-056-009-51		Distributors list		1	
9	86-944-012-01		Connection cord, CW-129BSK		2	
10	87-056-059-01		Guarantee card (G model only)		1	
11	87-032-845-01		Siemens plug (H model only)		1	

AIWA CO., LTD.

Printed in Japan

ELECTRICAL MAIN PARTS LIST

Symbol No.	Part No.	Description
≪MAIN CIRCUIT BOARD SECTION≫		
PCB-A	*	Main circuit board
IC701,702	87-027-594-01	IC, IR 2E05
Q105,106, 702,814 902,904	89-309-455-61	Transistor, 2SC945L (P, Q)
Q107,108, 503,811, 812	89-320-011-01	Transistor, 2SC2001 (K)
Q501,502, 701	89-309-456-01	Transistor, 2SC945L (P)
Q901,903	89-408-804-51	Transistor, 2SD880Y (GR)
D701,702, 703,704	88-052-188-11	Diode, IS188 (FM)
D705	87-027-792-01	LED ass'y 12x2 (OPTICAL DISPLAY)
D802,804	87-027-097-01	Diode, 1S1555
D803	87-027-349-01	Zener diode, HZ6A1L
D901	87-027-376-01	Diode, 1B4B41
D902	87-027-365-01	Diode, S5277B
D903	87-027-556-01	Zener diode, HZ 11B3
D904	87-027-393-01	Zener diode, HZ 4C2
L501,502	82-371-622-01	Coil, 23 mH
CP501	82-180-638-01	OSC block
SFR501,502	87-021-623-01	Semi-fixed resistor, 20KΩ-B
SFR503,504, 701,702	87-021-470-01	Semi-fixed resistor, 100KΩ-B
⚠F1	87-035-222-01	Fuse, "T" 1A (G model only)
	87-098-016-01	Fuse label, "T" 1A (G model only)
⚠F2	87-035-220-01	Fuse, "T" 630 mA (G model only)
	87-098-014-01	Fuse label, "T" 630 mA (G model only)
⚠	87-033-147-01	Fuse clamp (G model only)
PIN-1	87-047-038-01	Pin, 3P
PIN	82-180-643-01	Pin, 4P
PIN	82-180-642-01	Pin, 7P
PIN	82-180-641-01	Pin, 10P
		< **Resistors** >
⚠R903,915	87-029-089-01	4.7Ω ¼W Fuse resistor
⚠R534	87-029-017-01	10Ω ¼W Fuse resistor
⚠R914	87-029-065-01	68Ω ½W Fuse resistor
⚠R904	87-029-092-01	470Ω ¼W Fuse resistor
		< **Capacitors** >
C902	87-015-641-01	1000μF 50V Electrolytic
C906	87-015-657-01	2200μF 25V Electlytic LS
C103,104	87-015-237-01	10μF 25V Electrolytic LL
≪SUB CIRCUIT BOARD SECTION≫		
PCB-B	*	Sub circuit board
IC601	87-027-739-01	IC, NJM4556D
Q101,102, 803,804, 805,806	89-322-406-01	Transistor, 2SC2240 (BL)
Q103,104, 109,110, 201,202, 203,204, 808,813, 815,816	89-309-455-61	Transistor, 2SC945L (P, Q)
Q801,802	89-107-336-01	Transistor, 2SA733 (P)
Q807	89-109-706-01	Transistor, 2SA970 (BL)
Q809,810	89-320-011-01	Transistor, 2SC2001(K)
D801,805, 806	87-027-097-01	Diode, 1S1555
D807	87-027-393-01	Zener diode, HZ4C2

Symbol No.	Part No.	Description
J1,2	87-049-052-01	Jack, 6.3φ w/switch (MIC L, R)
J7	87-049-053-01	Jack, 6.3φ (HEADPHONES)
VR1	87-021-679-01	Volume, 50KΩ-A (RECORD LEVEL)
SFR101,102 103,104	87-021-569-01	Semi-fixed resistor, 50KΩ-B
R101,102 107,108	88-175-224-01	220kΩ ¼w LN
R103,104	88-175-184-01	180kΩ ¼w LN
		< **Resistor** >
⚠R810	87-029-091-01	120Ω ¼W Fuse resistor
		< **Capacitor** >
C103,104	87-015-247-01	10μF 25V Electrolytic LL
≪DOLBY-NR CIRCUIT BOARD SECTION≫		
PCB-C	*	Dolby-NR circuit board
IC301,302	87-027-738-01	IC, HA11226
IC303	87-027-235-01	IC, NJM-4558D
Q301,302, 303,304, 305,306, 307,308, 309,310, 311,312, 313,314, 315,316, 319,320, 401,402, 403,404, 409,410, 411,412,	89-309-456-01	Transistor, 2SC945L (P)
Q317,318	89-107-335-61	Transistor, 2SA733 K(P)
Q405,406, 413,414	89-320-011-01	Transistor, 2SC2001 (K)
Q407,408, 415,416	89-328-785-61	Transistor, 2SC2878 (A, B)
D301,302, 303,304, 305,306, 307,308, 309,310, 313,314, 319,320, 403,404, 407,408	87-027-097-01	Diode, IS1555
D311,312, 315,316, 317,318	88-052-188-11	Diode, IS188 (FM)
D401,402	87-027-625-01	Zener diode, 05Z6.8Z
D405,406	87-027-475-01	Zener diode, HZ-6B1
L301,302, 303,304,	87-005-147-01	Coil, 36 mH
LPF301,302	87-030-061-01	Low-pass filter, 85 K
S10,11	82-180-640-01	Push-switch (DOLBY B/C, DOLBY ON/OFF)
SFR301,302 305,306	87-021-626-01	Semi-fixed resistor, 2KΩ-B
SFR303,304	87-021-634-01	Semi-fixed resistor, 10KΩ-B
PIN	87-032-633-01	Pin, 3P
PIN	87-032-634-01	Pin, 4P
		< **Resistors** >
R325,326	87-025-271-01	5.1KΩ ¼W Metal film resistor
R319,320 343,344	87-025-272-01	13KΩ ¼W Metal film resistor
		< **Capacitors** >
C339,340	87-015-895-01	0.39μF 50V Electrolytic
C325,326	87-015-329-01	0.33μF 50V Electrolytic LL

Symbol No.	Part No.	Description
C303,304, 349,350	87-014-131-01	1800pF PP
C307,308, 309,310, 331,332, 337,338,	87-014-118-01	0.015μF PP
C327,328	87-015-429-01	0.33μF 25V Aluminum solid
≪LOGIC CIRCUIT BOARD SECTION≫		
PCB-D	*	Logic circuit board
IC1	87-027-477-01	IC, TC-9121P
IC2	87-027-435-01	IC, MC-4069
IC3	87-027-793-01	IC, μPD 4075BC
IC4	87-027-595-01	IC, TC-4023BP
Q1,6	89-107-335-61	Transistor, 2SA733K (P)
Q2,3,4,5, 7,8,10,11, 12,20,21	89-309-455-61	Transistor, 2SC945L(P, Q)
Q9,13	89-408-804-51	Transistor, 2SD880Y (GR)
Q14,15	89-320-011-01	Transistor, 2SC2001 (K)
Q16,17	89-109-520-01	Transistor, 2SA 952 (K)
Q18,19	89-405-711-21	Transistor, 2SD 571 (K, L)
D4,5,6,7, 8,10,11,12, 14,15,16,18, 24,25,26	87-027-097-01	Diode, 1S1555
D13,19,20,21 22	87-027-365-01	Diode, S5277B
D17	88-052-188-11	Diode, IS188 (FM)
D23	87-027-556-01	Zener diode, HZ-11B3
L1	87-003-039-01	Coil, 36 mH
J8	87-032-985-01	DIN jack, 8P (REMOTE)
J9,10	87-049-054-01	Jack, 2.5φ (TAPE TIME, PLAYER SYNC)
SFR1	87-021-569-01	Semi-fixed resistor, 50KΩ-B
PIN4	87-049-038-01	Pin, 3P
PIN2	87-049-065-01	Pin, 5P
PIN3	87-049-044-01	Pin, 7P
		< **Resistor** >
⚠R82	87-029-367-01	15Ω ½w Fuse resistor
≪TAPE SELECTOR CIRCUIT BOARD SECTION≫		
PCB-E	*	Tape selector circuit baoard
L503,504	87-005-093-01	Micro inductor coil, 4.7 mH
S12	82-180-639-01	Push-switch (TAPE SELECTOR)
≪KEY-BOARD CIRCUIT BOARD SECTION≫		
PCB-F	*	Key-board circuit board
D1	87-027-542-01	LED, LN217RP (REC)
D2	87-027-671-01	LED, LN417YP (PAUSE)
D3	87-027-543-01	LED, LN317GP (PLAY)
S4,5,6,7,8,9	87-031-627-01	Tact switch (REW, FF, PLAY, REC, STOP, PAUSE)
≪TIMER SW CIRCUIT BOARD SECTION≫		
PCB-G	*	Timer SW circuit board
S3	82-304-630-01	Slide switch (TIMER/REPEAT)
≪LAMP CIRCUIT BOARD SECTION≫		
PCB-H	*	Lamp circuit board
PL1,2	82-180-660-01	Pilot lamp, 18V 0.1A
≪DOLBY LED CIRCUIT BOARD SECTION≫		
PCB-I	*	Dolby LED circuit board
D409	87-027-543-01	LED, LN317GP (DOLBY-B)

Symbol No.	Part No.	Description
D410	87-027-542-01	LED, LN217RP (DOLBY-C)
≪JACK CIRCUIT BOARD SECTION≫		
PCB-J	*	Jack circuit board
J3,4,5,6	87-049-055-01	4P pin jack (LINE IN/REC, LINE OUT/PLAY)
≪DME CIRCUIT BOARD SECTION≫		
PCB-K	*	DME circuit board
DME-1	82-397-642-11	DM-101A
≪AC OUTLET CIRCUIT BOARD SECTION≫ = G model only		
⚠PCB-L	82-180-618-01	AC outlet circuit board
⚠J11	87-032-996-01	AC outlet
≪MISCELLANEOUS≫		
⚠T1	82-180-635-01	Power transformer (H model only)
⚠T1	82-180-634-01	Power transformer (G model only)
RPH	87-046-200-01	REC/PB head
EH	87-046-196-01	Erase head
M1	87-045-135-01	Motor, DC EG
M2	87-045-164-01	Sub motor
PL3	82-180-659-01	Pilot lamp
SI	82-283-631-01	Leaf switch (CASSETTE DET)
S2	87-031-610-01	Micro switch (REC INH)
S13	87-031-640-01	Push-switch (POWER)
SOL1	87-045-169-01	Solenoid (Main)
SOL2	87-045-170-01	Solenoid (Sub)
⚠S13	87-031-640-01	Push-switch (POWER)
⚠S14	87-031-685-01	Rotary switch (VOLTAGE SELECTOR) (H model only)
⚠	87-034-956-01	AC power cord (H model only)
⚠	87-034-892-01	AC power cord (G model only)
⚠	87-085-165-01	Cord bushing (H model only)
⚠	87-085-166-01	Holder, AC power cord (G model only)
CON4	82-180-644-01	Connector ass'y, 3P
CON1	82-180-658-01	Connector ass'y, 3P
CON2	82-180-646-01	Connector ass'y, 5P
CON3	82-180-645-01	Connector ass'y, 7P
		< **Capacitor** >
⚠C1	87-019-112-01	0.01μF Spark killer

⚠ Safety component symbol

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

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Symbol No.	Part No.	Description
J1,2	87-049-052-01	Jack, 6.3φ w/switch (MIC L, R)
J7	87-049-053-01	Jack, 6.3φ (HEADPHONES)
VR1	87-021-679-01	Volume, 50KΩ-A (RECORD LEVEL)
SFR101,102 103,104	87-021-569-01	Semi-fixed resistor, 50KΩ-B
R101,102 107,108	88-175-224-01	220kΩ ¼w LN
R103,104	88-175-184-01	180kΩ ¼w LN
		< **Resistor** >
⚠ R810	87-029-091-01	120Ω ¼W Fuse resistor
		< **Capacitor** >
C103,104	87-015-247-01	10μF 25V Electrolytic LL
≪DOLBY-NR CIRCUIT BOARD SECTION≫		
PCB-C	*	Dolby-NR circuit board
IC301,302	87-027-738-01	IC, HA11226
IC303	87-027-235-01	IC, NJM-4558D
Q301,302, 303,304, 305,306, 307,308, 309,310, 311,312, 313,314, 315,316, 319,320, 401,402, 403,404, 409,410, 411,412,	89-309-456-01	Transistor, 2SC945L (P)
Q317,318	89-107-335-61	Transistor, 2SA733 K(P)
Q405,406, 413,414	89-320-011-01	Transistor, 2SC2001 (K)
Q407,408, 415,416	89-328-785-61	Transistor, 2SC2878 (A, B)
D301,302, 303,304, 305,306, 307,308, 309,310, 313,314, 319,320, 403,404, 407,408	87-027-097-01	Diode, IS1555
D311,312, 315,316, 317,318	88-052-188-11	Diode, IS188 (FM)
D401,402	87-027-625-01	Zener diode, 05Z6.8Z
D405,406	87-027-475-01	Zener diode, HZ-6B1
L301,302, 303,304,	87-005-147-01	Coil, 36 mH
LPF301,302	87-030-061-01	Low-pass filter, 85 K
S10,11	82-180-640-01	Push-switch (DOLBY B/C, DOLBY ON/OFF)
SFR301,302 305,306	87-021-626-01	Semi-fixed resistor, 2KΩ-B
SFR303,304	87-021-634-01	Semi-fixed resistor, 10KΩ-B
PIN	87-032-633-01	Pin, 3P
PIN	87-032-634-01	Pin, 4P
		< **Resistors** >
R325,326	87-025-271-01	5.1KΩ ¼W Metal film resistor
R319,320 343,344	87-025-272-01	13KΩ ¼W Metal film resistor
		< **Capacitors** >
C339,340	87-015-895-01	0.39μF 50V Electrolytic
C325,326	87-015-329-01	0.33μF 50V Electrolytic LL

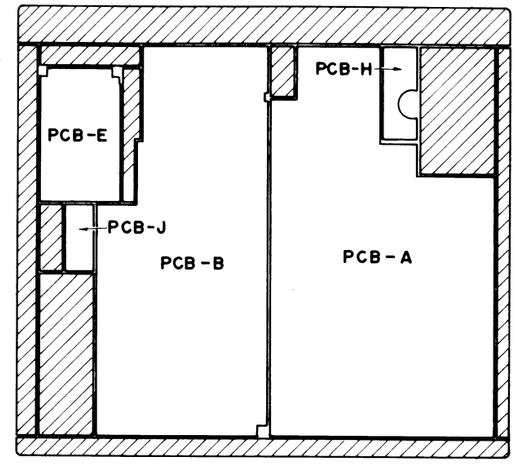
Symbol No.	Part No.	Description
C303,304, 349,350	87-014-131-01	1800pF PP
C307,308, 309,310, 331,332, 337,338,	87-014-118-01	0.015μF PP
C327,328	87-015-429-01	0.33μF 25V Aluminum solid
≪LOGIC CIRCUIT BOARD SECTION≫		
PCB-D	*	Logic circuit board
IC1	87-027-477-01	IC, TC-9121P
IC2	87-027-435-01	IC, MC-4069
IC3	87-027-793-01	IC, μPD 4075BC
IC4	87-027-595-01	IC, TC-4023BP
Q1,6	89-107-335-61	Transistor, 2SA733K (P)
Q2,3,4,5, 7,8,10,11, 12,20,21	89-309-455-61	Transistor, 2SC945L(P, Q)
Q9,13	89-408-804-51	Transistor, 2SD880Y (GR)
Q14,15	89-320-011-01	Transistor, 2SC2001 (K)
Q16,17	89-109-520-01	Transistor, 2SA 952 (K)
Q18,19	89-405-711-21	Transistor, 2SD 571 (K, L)
D4,5,6,7, 8,10,11,12, 14,15,16,18, 24,25,26	87-027-097-01	Diode, 1S1555
D13,19,20,21 22	87-027-365-01	Diode, S5277B
D17	88-052-188-11	Diode, IS188 (FM)
D23	87-027-556-01	Zener diode, HZ-11B3
L1	87-003-039-01	Coil, 36 mH
J8	87-032-985-01	DIN jack, 8P (REMOTE)
J9,10	87-049-054-01	Jack, 2.5φ (TAPE TIME, PLAYER SYNC)
SFR1	87-021-569-01	Semi-fixed resistor, 50KΩ-B
PIN4	87-049-038-01	Pin, 3P
PIN2	87-049-065-01	Pin, 5P
PIN3	87-049-044-01	Pin, 7P
		< **Resistor** >
⚠ R82	87-029-367-01	15Ω ½w Fuse resistor
≪TAPE SELECTOR CIRCUIT BOARD SECTION≫		
PCB-E	*	Tape selector circuit baoard
L503,504	87-005-093-01	Micro inductor coil, 4.7 mH
S12	82-180-639-01	Push-switch (TAPE SELECTOR)
≪KEY-BOARD CIRCUIT BOARD SECTION≫		
PCB-F	*	Key-board circuit board
D1	87-027-542-01	LED, LN217RP (REC)
D2	87-027-671-01	LED, LN417YP (PAUSE)
D3	87-027-543-01	LED, LN317GP (PLAY)
S4,5,6,7,8,9	87-031-627-01	Tact switch (REW, FF, PLAY, REC, STOP, PAUSE)
≪TIMER SW CIRCUIT BOARD SECTION≫		
PCB-G	*	Timer SW circuit board
S3	82-304-630-01	Slide switch (TIMER/REPEAT)
≪LAMP CIRCUIT BOARD SECTION≫		
PCB-H	*	Lamp circuit board
PL1,2	82-180-660-01	Pilot lamp, 18V 0.1A
≪DOLBY LED CIRCUIT BOARD SECTION≫		
PCB-I	*	Dolby LED circuit board
D409	87-027-543-01	LED, LN317GP (DOLBY-B)

Symbol No.	Part No.	Description
D410	87-027-542-01	LED, LN217RP (DOLBY-C)
≪JACK CIRCUIT BOARD SECTION≫		
PCB-J	*	Jack circuit board
J3,4,5,6	87-049-055-01	4P pin jack (LINE IN/REC, LINE OUT/PLAY)
≪DME CIRCUIT BOARD SECTION≫		
PCB-K	*	DME circuit board
DME-1	82-397-642-11	DM-101A
≪AC OUTLET CIRCUIT BOARD SECTION≫ = G model only		
⚠ PCB-L	82-180-618-01	AC outlet circuit board
⚠ J11	87-032-996-01	AC outlet
≪MISCELLANEOUS≫		
⚠ T1	82-180-635-01	Power transformer (H model only)
⚠ T1	82-180-634-01	Power transformer (G model only)
RPH	87-046-200-01	REC/PB head
EH	87-046-196-01	Erase head
M1	87-045-135-01	Motor, DC EG
M2	87-045-164-01	Sub motor
PL3	82-180-659-01	Pilot lamp
SI	82-283-631-01	Leaf switch (CASSETTE DET)
S2	87-031-610-01	Micro switch (REC INH)
S13	87-031-640-01	Push-switch (POWER)
SOL1	87-045-169-01	Solenoid (Main)
SOL2	87-045-170-01	Solenoid (Sub)
⚠ S13	87-031-640-01	Push-switch (POWER)
⚠ S14	87-031-685-01	Rotary switch (VOLTAGE SELECTOR) (H model only)
⚠	87-034-956-01	AC power cord (H model only)
⚠	87-034-892-01	AC power cord (G model only)
⚠	87-085-165-01	Cord bushing (H model only)
⚠	87-085-166-01	Holder, AC power cord(G model only)
CON4	82-180-644-01	Connector ass'y, 3P
CON1	82-180-658-01	Connector ass'y, 3P
CON2	82-180-646-01	Connector ass'y, 5P
CON3	82-180-645-01	Connector ass'y, 7P
		< **Capacitor** >
⚠ C1	87-019-112-01	0.01μF Spark killer

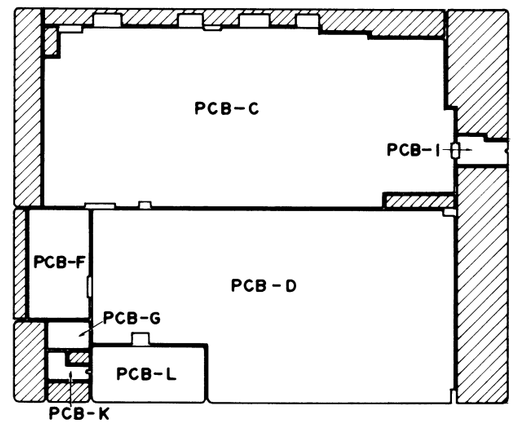
⚠ Safety component symbol
This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

Note; Combination Circuit Board
The parts on the electrical parts list which are indicated by an asterisk (*) are supplied as one single combined circuit board. Therefore, they will not be supplied separately. If this becomes necessary, please order the entire circuit board.

Combination circuit board A 82-180-651-11



Combination circuit board B 82-180-611-11



SD-L80H,G SD-L80H,G

SCHEMATIC DIAGRAM—1

B SUB C.B

A MAIN C.B

C DOLBY C.B

DOLBY B-C NR

TAPE SELECTOR C.B

Q101 2SC2240(BL) PB EQ AMP

Q103 2SC945L(P,Q) PB EQ AMP

Q105 2SC945L(P,Q) PB BUFFER AMP

Q807 2SA-970(BL) SWITCHING

Q803 2SC-2240 X2 (BL) Q805 SWITCHING

Q808 2SC945L(PQ) SWITCHING

Q809 2SC-200(K) MUTING

Q108

P.B FREQ. CHARACTERISTIC ADJ.

P.B LEVEL ADJ.

Q811 2SC-200(K) MUTING

Q501 2SC945L(P) PRE AMP

(LH -21.0dB) (CrO2 -19.2dB) (METAL -17.1dB)

BIAS TRAP COIL ADJ.

REC/PB SENSITIVITY ADJ.

J JACK C.B

J1 MIC

J3 LINE IN REC-L

J5 LINE OUT/PLAY

J7 PHONES

Q201 2SC945L (P,Q) MIC AMP

Q203 2SC945L (P,Q) REC BUFFER AMP

Q109 2SC945L(P,Q) 120-70μs SWITCHING

RECORD LEVEL

(MIC -22.4dB) (LINE -21.7dB)

Q815 2SC945L (P,Q) LINE IN MUTE

REC/PB SWITCHING CONTROL

Q107 2SC-200(K) LINE OUT MUTE

IC601 (1/2)

IC 601 NJM4556D PHONES AMP

H LAMP C.B

PANEL LAMP 2 PL1 PL2 18V 100mA X 2

VOLTAGE SELECTOR

AC110V/120V/240V 50/60Hz

"H" MODEL ONLY

"G" MODEL ONLY

Q901 2SD880Y(GR)

Q902 2SC945L (P,Q)

Q903 2SD880Y(GR)

Q904 2SC945L(P,Q)

Q901~904 CONST VOLTAGE

Q801 2SA-733(P)

Q802 2SA-733(P)

Q813 2SC945L(P,Q)

Q814 2SC945L (P,Q)

Q503 BIAS OSC DRIVE

Q814 BIAS OSC STOP

BIAS OSC UNIT CP501

LH REC/PB FREQ. CHARACTERISTIC ADJ.

LEVEL IND. ADJ.

Q701 2SC945L(P) METER BUFFER

IC701 IR2E05 LED DISPLAY DRIVE

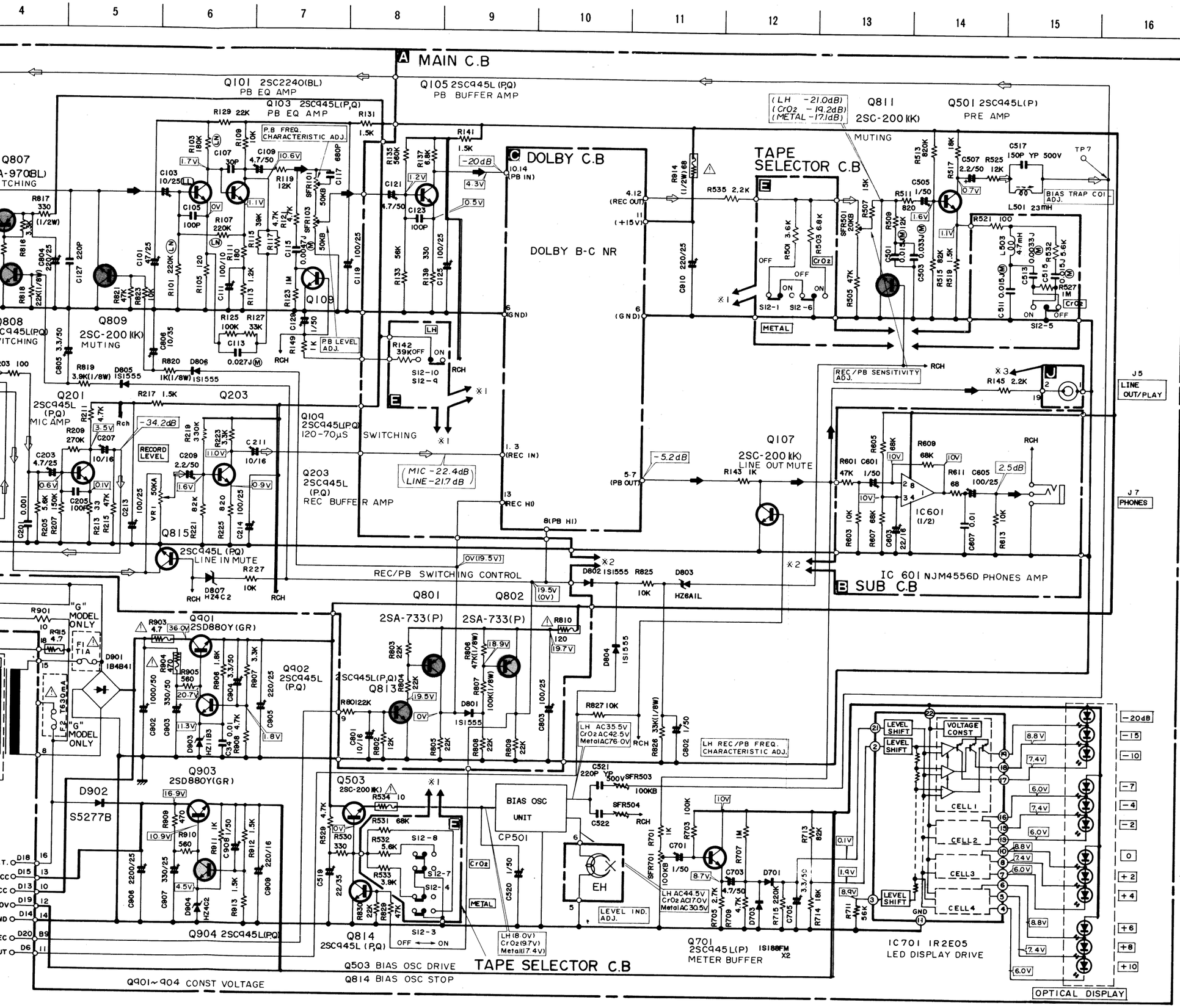
OPTICAL DISPLAY

D LOGIC C.B

L AC OUTLET C.B

"G" MODEL ONLY

TAPE SELECTOR C.B

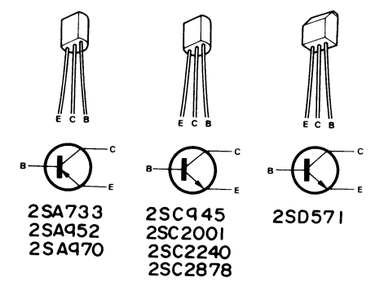


NOTES:

1) ■ B (+) power supply
2) ➡ Signal path
   ⇨ Rec path
3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals.
   But ( ) is with recording.
   An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
4) Resistors with no designation have a rated power of 1/4W and a tolerance of ±5%.
5) Capacitors with no designation have a dielectirc strneght of less than 50WV.
6) The only capacitor tolerances indicated are ±2% (G), ±5% (J) and ±10% (K).
7) Ceramic capacitor symbols:
   ⊣|(– High dielectric constant system (YY)
   ⊣|⊢ High dielectric constant system (YW, YP, YZ)
8) Explanation of symbols
   (M) Mylar capacitor
   (A) Aluminum solid capacitor
   (PP) Polypropylene film capacitor
   (BP) Bi-polarized capacitor
   (LL) Low-leakage capacitor
   ⏦ Fuse resistor
   REC/PB Transistor switch
   ● PB-----ON
   ● REC----ON

⚠ Safety component symbol
This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

- This schematic diagram is subject to change without notice in the interests of improved performance.



WIRING–1

NOTES (1) B(+) Pattern Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) wh
An asterisk (*) indicates that the value was measured with a vacuum-tube voltm

5. Bias Trap Coil Adjustment
Settings:
- Recording mode
- Test points: TP7 (L-ch), TP8 (R-ch)
- Adjustment locations: L501 (L-ch) L502 (R-ch)

Method:
Adjust L501, 502 so that the voltage at test point TP7, 8 is reduced to minimum value.

6. LH REC/PB Frequency Characteristic Adjustment
Setting:
- Recording mode
- Test tape: TTA-119J
- Output level: MAX
- TAPE SELECTOR switch: LH
- Input signal: 1kHz/10kHz, 30mV
- Adjustment locations: SFR503 (L-ch) SFR504 (R-ch)

* **Method:**
Supply a 1 kHz, 30 mV signal and adjust the recording level so that the LINE output is made 55 mV. Record and play-back the 1 kHz and 10 kHz signals and adjust so that the 1 kHz and 10 kHz outputs are set to +1.0 dB.
Settings differ as below METAL, CrO_2
- **METAL tape**

Settings:
- Test tape: AC-711

Rating:
+1.0 dB
- **CrO_2 tape**

Settings:
- Test tape: TTA 119G

Ratings:
+1.0 dB

4. Play back Level Adjustment
Settings:
- Test tape: TTA-161
- TAPE SELECTOR: LH
- Adjustment locations: SFR103 (L-ch) SFR104 (R-ch)

Method:
Play back the test tape and adjust so that the LINE output is 760 mV±0.2dB.

3. Play back Frequency Characteristic Adjustment
Settings:
- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO_2
- Adjustment locations: SFR101 (L-ch) SFR102 (R-ch)

Method:
Play back the test tape and adjust SFR101, 102 so that the 1 kHz and 10 kHz output deviation are +0.5 ~ 1.0 dB.

2. Azimuth Adjustment
Settings:
- Play back mode
- Output level: MAX
- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO_2
- Adjustment location: Azimuth adjusting screw

Method:
Play back the test tape and adjust so that the output of the 10 kHz section reaches the maximum and same phase for both the left and right channel.

7. REC/PB Sensitivity Adjustment
- **LH tape**

Settings:
- Recording mode
- Test tape: TTA-119J
- Input signal: 1 kHz, 30 mV
- Output level: MAX
- TAPE SELECTOR switch: LH
- Adjustment locations: SFR501 (L-ch) SFR502 (R-ch)

Method:
Make the characteristics identical to the 6. REC/PB frequency characteristic.
Adjustment and adjust so that the LINE output is made 55 mV.

Rating:
55 mV + 1.0 dB

Settings differe as below METAL, CrO_2
- **METAL tape**

Settings:
- Test tape: AC-711

Rating:
55 mV + 1.0 dB
- **CrO_2 tape**

Setting:
- Test tape: TTA-119G

Rating:
55 mV + 1.0 dB

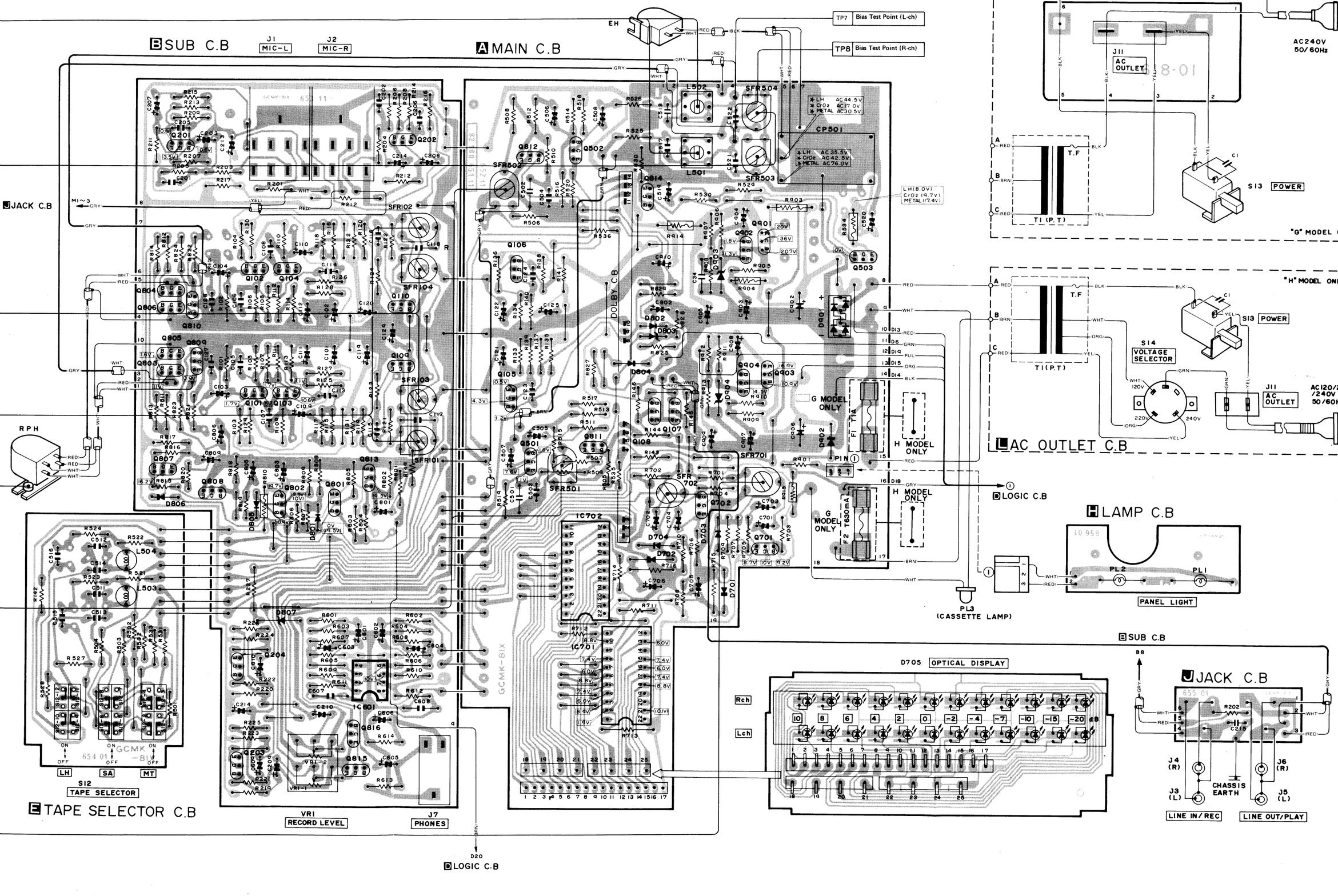
8. Level Indicator Adjustment
Settings:
- Recording mode
- Input signal: 1 kHz, –10 dB
- DOLBY NR switch: OFF
- Adjustment location: SFR701 (L-ch) SFR702 (R-ch)

Method:
Adjust RECORD VOLUME so that the LINE OUTPUT is 540 mV. Adjust SFR701, 702 so that 0 dB LED light up. Confirmed put out 0 dB LED when input signal decrease 0.2 dB.

B SUB C.B
J1 MIC-L
J2 MIC-R
A MAIN C.B
EH
TP7 Bias Test Point (L-ch)
TP8 Bias Test Point (R-ch)
J JACK C.B
RPH
S12 TAPE SELECTOR
E TAPE SELECTOR C.B
VR1 RECORD LEVEL
J7 PHONES
D LOGIC C.B
L AC OUTLET C.B
J11 AC OUTLET
T.F
TI (P.T)
G MODEL ONLY
H MODEL ONLY
F1 T1A
F2 T630mA
PIN
SFR701
SFR702
PL3 (CASSETTE LAMP)
H LAMP
D705 OPTICAL DISPLAY
Rch
Lch
L502
SFR504
L501
SFR503
CP501
SFR502
SFR102
SFR104
SFR103
SFR101
SFR501
L504
L503
IC702
IC701
IC601
GCMK-81X
DOLBY C.B

NOTES (1) B(+) Pattern Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.
An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.

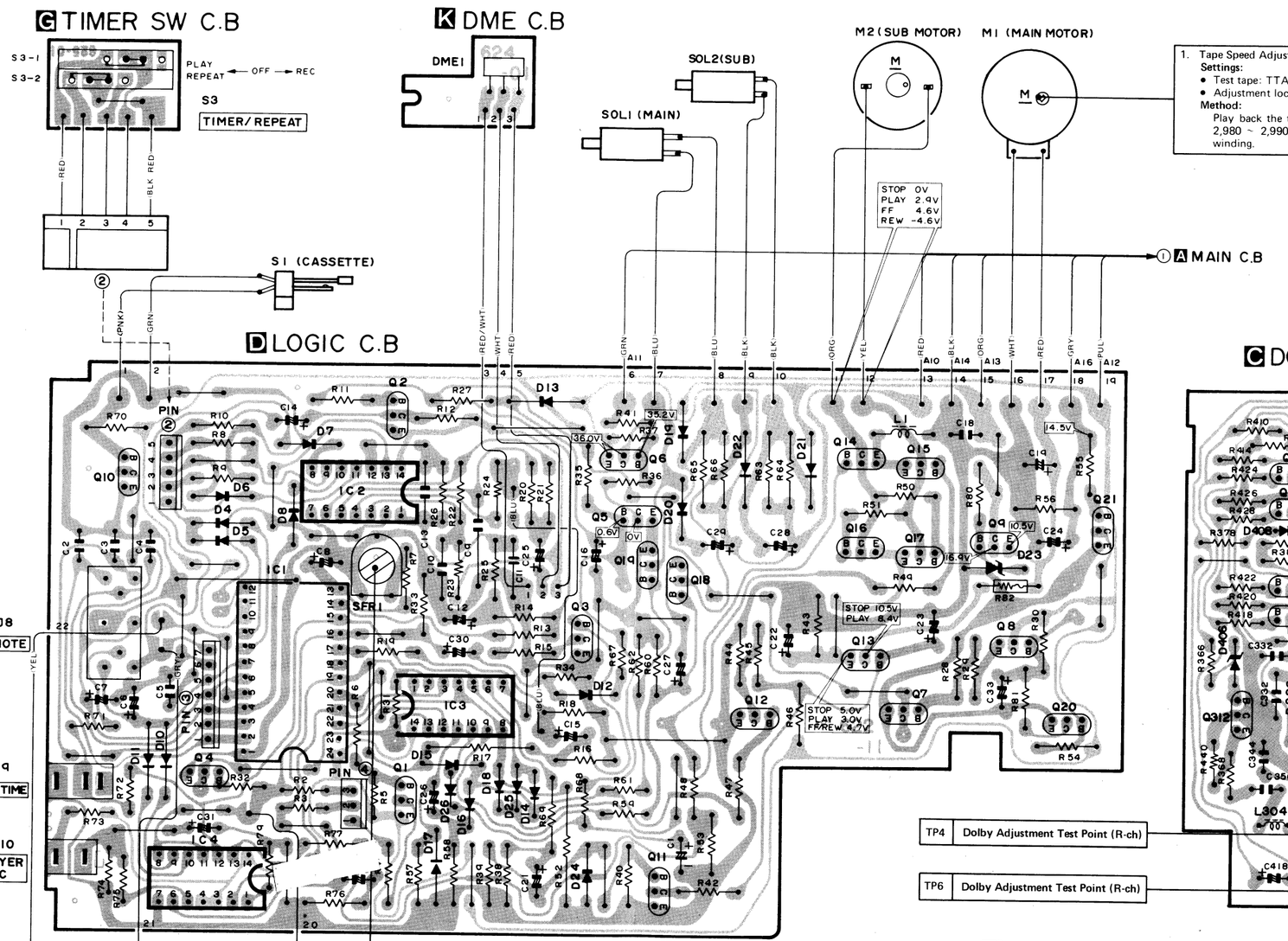
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19



SD-L80H,G SD-L80H,G

NOTES (1) B(+) Pattern Others pattern
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.
But ( ) is with AM reception.

WIRING–2



1. Tape Speed Adjustment
Settings:
- Test tape: TTA-111S
- Adjustment location: SFR of M1

Method:
Play back the test tape and adjust so that the frequency is 2,980 ~ 2,990 Hz, both at the start and the end of tape winding.

9. Dolby C REC Sensitivity Adjustment
Settings:
- Recording Mode
- Dolby NR switch: OFF
- Input signal: 700Hz, –20 dB
- Test point: TP1,3 (L-ch), TP2,4 (R-ch)
- Adjustment locations: SFR305 (L-ch), SFR306 (R-ch)
- Bias + B pattern cut

Method:
Supply a 700 Hz, –20 dB signal and adjust the RECORD VOLUME so that the test point TP1,2 output is made 0.775V. Next adjust SFR305, 306 so that the test point TP3,4 output is made 0.775V. After adjustment, +B pattern short.

12. Logic Timing Adjustment
Setting: • Adjustment location: SFR1
Method: Frequency counter connected with IC1, PIN No. 13 on pattern.
Rating: 10 Hz

11. Dolby Playback Sensitivity Adjustment
Settings:
- Dolby NR switch: OFF
- Input signal: 700Hz, –20 dB
- Test point: TP1,3 (L-ch), TP2,4 (R-ch)
- Adjustment locations: SFR301 (L-ch), SFR302 (R-ch)

Method:
Supply a 700 Hz –20 dB signal and adjust the REC VOLUME so that the test point TR3,4 output is 0.775V. Next adjust SFR301, 302 so that the test TP1,2 output is made 0.775V.

Pattern Others pattern
e is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.
) is with AM receptiòn.

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

K DME C.B

DME1

SOL2(SUB)

SOL1 (MAIN)

M2 (SUB MOTOR)

M1 (MAIN MOTOR)

STOP 0V
PLAY 2.9V
FF 4.6V
REW -4.6V

ETTE)

→ ① A MAIN C.B

C C.B

1. Tape Speed Adjustment
Settings:
- Test tape: TTA-111S
- Adjustment location: SFR of M1

Method:
Play back the test tape and adjust so that the frequency is 2,980 ~ 2,990 Hz, both at the start and the end of tape winding.

9. Dolby C REC Sensitivity Adjustment
Settings:
- Recording Mode
- Dolby NR switch: OFF
- Input signal: 700Hz, −20 dB
- Test point: TP1,3 (L-ch), TP2,4 (R-ch)
- Adjustment locations: SFR305 (L-ch), SFR306 (R-ch)
- Bias + B pattern cut

Method:
Supply a 700 Hz, −20 dB signal and adjust the RECORD VOLUME so that the test point TP1,2 output is made 0.775V. Next adjust SFR305, 306 so that the test point TP3,4 output is made 0.775V. After adjustment, + B pattern short.

10. Dolby C Encord Adjustment
Settings:
- Recording mode
- Dolby NR switch: OFF → ON
- Dolby selector switch: C (Dolby NR switch to ON)
- Input signal: 700 Hz − 20 dB
- Test point: TP3,5 (L-ch), TR4,6 (R-ch)
- Adjustment locations: SFR303 (L-ch), SFR304 (R-ch)

Method:
Supply a 700 Hz, −20 dB signal and adjust the RECORD VOLUME so that the test point TP3,4 output is made 23.5 mV. Next set the Dolby NR switch to ON and Dolby Selector switch to C and adjust the SFR303,304 so that the test point TP5,6 output is 83.5 mV ± 0.2 dB.

C DOLBY C.B

SI0 DOLBY ON/OFF
SI1 DOLBY B/C

TP4 Dolby Adjustment Test Point (R-ch)

TP6 Dolby Adjustment Test Point (R-ch)

F KEY BOARD C.B

(BRN) → B9 B SUB C.B

ing Adjustment
djustment location: SFR1
uency counter connected with IC1, PIN No. 13
attern.
z

D LOGIC C.B

TP2 Dolby Adjustment Test Point (R-ch)

TP1 Dolby Adjustment Test Point (L-ch)

TP3 Dolby Adjustment Test Point (L-ch)

TP5 Dolby Adjustment Test Point (L-ch)

A MAIN C.B

11. Dolby Playback Sensitivity Adjustment
Settings:
- Dolby NR switch: OFF
- Input signal: 700Hz, −20 dB
- Test point: TP1,3 (L-ch), TP2,4 (R-ch)
- Adjustment locations: SFR301 (L-ch), SFR302 (R-ch)

Method:
Supply a 700 Hz −20 dB signal and adjust the RECORD VOLUME so that the test point TR3,4 output is made 0.775V. Next adjust SFR301, 302 so that the test point TP1,2 output is made 0.775V.

D410 DOLBY−C

D409 DOLBY−B

I LED C.B

SCHEMATIC DIAGRAM–2

C DOLBY-NR C.B

IC301
IC HA-11226
DOLBY-NR

NJM-4558D
IC303(1/2)

DOLBY C P.B SENSITIVITY ADJ.

DOLBY C ENCORD ADJ.

DOLBY C REC SENSITIVITY ADJ.

LPF301

MPX FILTER

SIO-3

DOLBY LED C.B

D409 LN317GP
D410 LN217RP

Q301~316 2SC945L(P)X16

2SC945L(P)X2

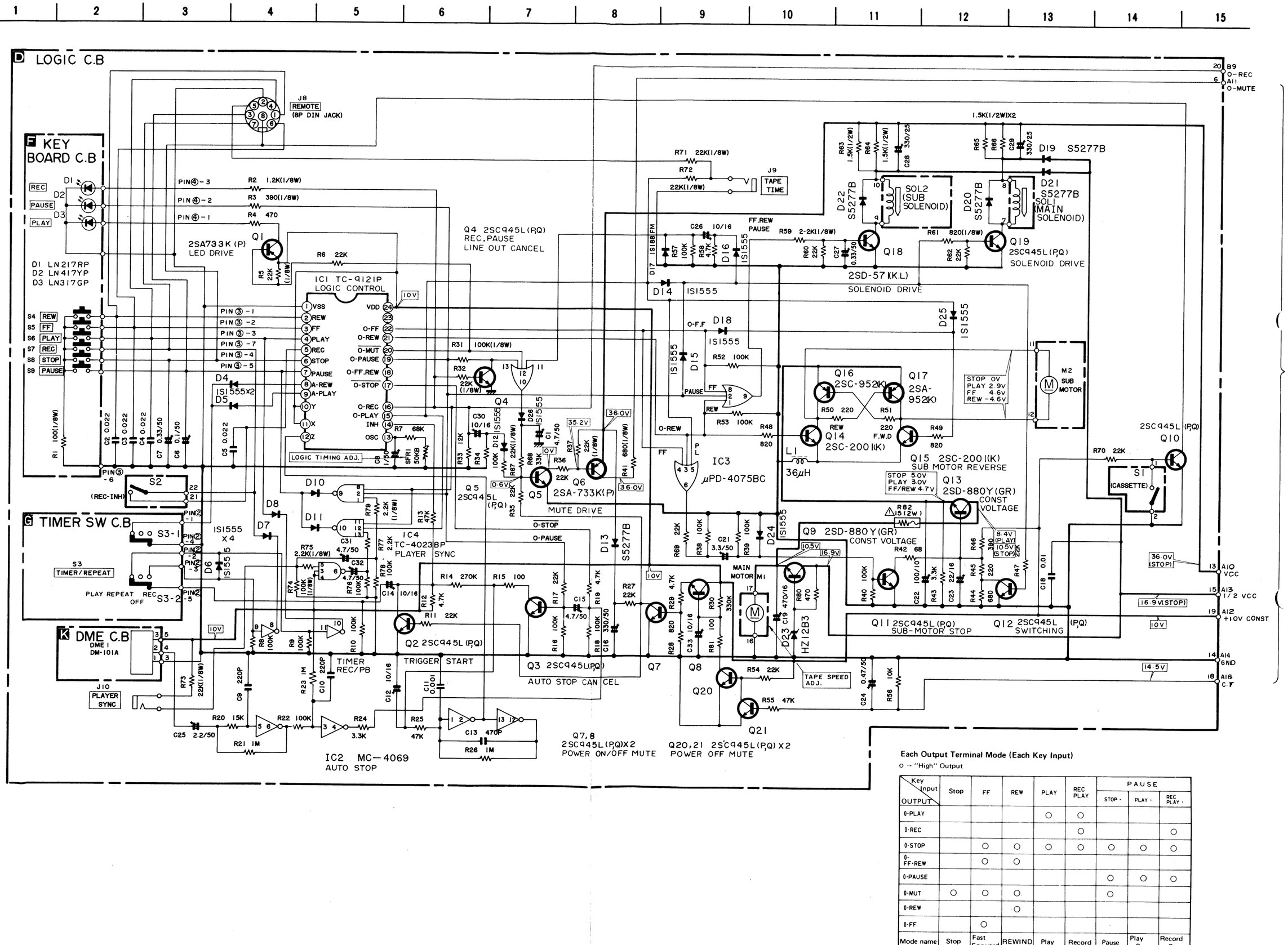
2SC200(K) 2SC2878(A,B)

Q319 2SC945L(P)

Q317 2SC-733(K,P)

S1	CASSETTE	S8	STOP
S2	REC INH	S9	PAUSE
S3-1,2	TIMER/REPEAT(PLAY,REPEAT)	S10-1~4	DOLBY ON/OFF (ON)
S4	REW	S11-1,2	DOLBY B/C (C)
S5	FF	S12-1~12	TAPE SELECTOR(LH)
S6	PLAY	S13	POWER (OFF)
S7	REC	S14	VOLTAGE SELECTOR(220V) (H MODEL ONLY)

SCHEMATIC DIAGRAM–3



Each Output Terminal Mode (Each Key Input)

○ → "High" Output

Key Input / OUTPUT	Stop	FF	REW	PLAY	REC PLAY	PAUSE		
						STOP ·	PLAY ·	REC PLAY ·
O-PLAY				○	○			
O-REC					○			○
O-STOP		○	○	○	○	○	○	○
O-FF·REW		○	○					
O-PAUSE						○	○	○
O-MUT	○	○	○			○		
O-REW			○					
O-FF		○						
Mode name	Stop	Fast Forward	REWIND	Play	Record	Pause	Play Pause	Record Pause